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Antenna with Rotatable Reflector

Abstract

A directional antenna formed by associating a stationary generally omni-directional antenna element with an RF reflector formed from, for example, a folded, parabolic or elliptical RF reflecting surface. Rotating the RF reflector about the stationary antenna element creates a directional characteristic in the resulting antenna over, for example, a 360 degree range of azimuth. Rotation of the RF reflector may be remotely driven by a motor coupled, for example, to a gear connected to the RF reflector. The direct connection of the antenna element and the enclosed lightweight rotating assembly provide a reliable, easy to install and cost effective antenna.